# Suntan<sub>®</sub> Su<sub>®</sub>

## 6A05 THRU 6A10

### General Purpose Plastic Rectifier

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 6.0 Ampere

### FEATURES

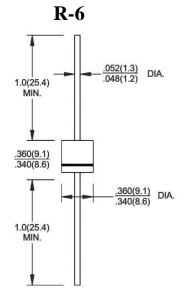
- ◆Low forward voltage drop
- ◆Low leakage current
- ♦ High forward surge capability
- ♦ High temperature soldering guaranteed:

 $260\,^\circ\!\mathrm{C}/10$  seconds,0.375" (9.5mm)lead length at

5 lbs(2.3kg) tension

#### Mechanical Data

- ◆Case: Transfer molded plastic
- ◆Epoxy: UL94V-0 rate flame retardant
- ◆ Polarity: Color band denotes cathode end
- ◆Lead: Plated axial lead, solderable per
- MIL-STD-202E method 208C
- Mounting position: Any



**Dimensions in inches and (millimeters)** 

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

#### Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Single phase, han wave, bornz, resistive of inductive load. For capacitive load, derate current by 2070									
	SYMBOL	6A05	6A1	6A2	6A4	6A6	6A8	6A10	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current(FIG.1) 0.375"(9.5mm) lead length at $T_A=60$ °C	I(AV)	6.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	Ifsm	150							Amps
Maximum Instantaneous Forward Voltage at 6.0A	V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current $T_A=25^{\circ}C$ at rated DC Blocking voltage $T_A=100^{\circ}C$	IR	10 100							μΑ
Typical Junction Capacitance (NOTE 1)	C <sub>J</sub>	150							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	10							°C/W
Operating and Storage Temperature Range	$T_{J}$ , $Tstg$	-55 to +150							°C

Note: 1.Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

2. Thermal Resistance from Junction to Ambient at. 375" (9.5mm) lead length, P.C. board mounted.

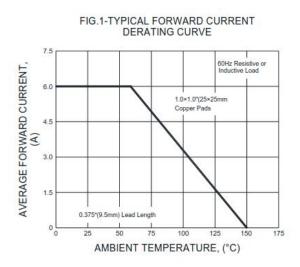
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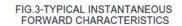
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### **RATING AND CHARACTERISTIC CURVES 6A05 THRU 6A10**





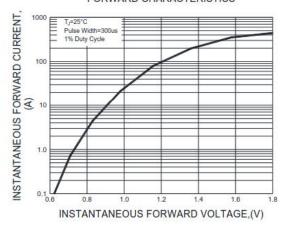
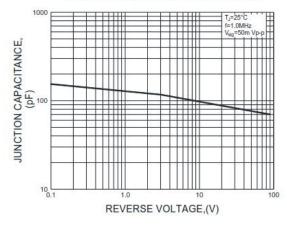


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

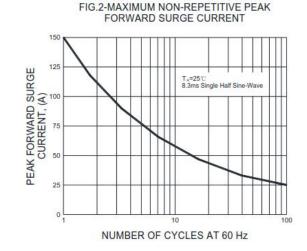


FIG.4-TYPICAL REVERSE CHARACTERISTICS

